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In the Claims:

1. (Currently Amended) A syringe adapter for use with an injector, the syringe adapter comprising:
  - a rear mounting member adapted to releasably connect to a syringe retaining mechanism on the injector; and
  - a front mounting member adapted to releasably connect to a corresponding mounting member on a rear end of a syringe to install the syringe on the injector, wherein the rear mounting member is adapted to releasably connect to the syringe retaining mechanism of the injector regardless of the orientation of the syringe adapter with respect to the injector about its longitudinal axis;
  - wherein the rear mounting member comprises at least one attachment member adapted to connect to the syringe retaining mechanism of the injector;
  - wherein the at least one attachment member comprises an annular ridge disposed on a the body;
  - wherein the rear mounting member further comprises one or more projections adapted to engage corresponding members of the syringe retaining mechanism to enable release of the syringe adapter from the injector through rotational motion about a longitudinal axis through the syringe retaining mechanism,
  - wherein the front mounting member is located distally from the rear mounting member.
2. (Previously Presented) The syringe adapter of claim 1 wherein the front mounting member comprises at least one capture member adapted to releasably connect to the corresponding mounting member associated with the syringe, the at least one capture member including an annular surface terminating with a continuous distal ledge.
3. (Previously Presented) The syringe adapter of claim 2 wherein the at least one capture member is movable to releasably connect to the corresponding mounting member associated with the syringe.

4-6. (Cancelled)

7. (Previously Presented) The syringe adapter of claim 1 wherein the at least one attachment member comprises one or more tab members.

8. (Previously Presented ) The syringe adapter of claim 7 wherein each of the tab members comprises a first tab end attached to the adapter and a second tab end adapted to releasably connect to the syringe retaining mechanism of the injector.

9. (Previously presented) The syringe adapter of claim 7 wherein the tab members are resilient members.

10. (Previously presented) The syringe adapter of claim 7 wherein the tab members are integrally formed with the adapter.

11. (Previously Presented) The syringe adapter of claim 1 wherein the rear mounting member is moved in an axial direction to releasably connect to the syringe retaining mechanism of the injector.

12.- 13. (Canceled)

14. (Currently Amended) A method of adapting an injector to accept a syringe, the method comprising:  
releasably connecting an adapter configured to accept the syringe on the injector without regard to the orientation of the adapter with respect to the injector about its longitudinal axis; and  
mounting the syringe on the adapter.

15. (Currently Amended) A syringe adapter for use with an injector, the syringe adapter comprising:

a rear mounting member adapted to releasably connect to a syringe retaining mechanism associated with the injector; and

a front mounting member adapted to engage a corresponding mounting member associated with a syringe to install the syringe on the injector,

wherein the front mounting member includes at least one capture member adapted to engage a rearward end of the syringe,

wherein the rear mounting member comprises an attachment member extending at least partially around the circumference of a rear end of a syringe and the attachment member adapted to releasably connect to the syringe retaining mechanism of the injector regardless of the orientation of the syringe adapter with respect to the injector about its longitudinal axis,

wherein the rear mounting member further comprises one or more projections located proximal to the attachment member and adapted to engage corresponding members of the syringe retaining mechanism to enable release of the syringe adapter from the injector through rotational motion about a longitudinal axis through the syringe retaining mechanism,

wherein the front mounting member is located distally from the rear mounting member.

16. (Currently Amended) A syringe adapter for use with an injector, the syringe adapter comprising:

a rear mounting member adapted to releasably connect to a syringe retaining mechanism on the injector; and

a front mounting member adapted to releasably connect to a corresponding mounting member on a rear end of a syringe to install the syringe on the injector, wherein the rear mounting member is adapted to releasably connect to the syringe retaining mechanism of the injector regardless of the orientation of the syringe adapter with respect to the injector about its longitudinal axis,

wherein the rear mounting member comprises at least one attachment member adapted to releasably connect to the syringe retaining mechanism of the injector,

wherein the at least one attachment member comprises one or more tab

members,

wherein each of the tab members comprises a first tab end attached to the adapter and a second tab end adapted to releasably connect to the syringe retaining mechanism of the injector,

wherein the tab members are resilient members.

17. (Previously Presented) The syringe adapter of Claim 15 wherein the one or more projections extend in the axial direction.